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the Fleet Numerical Oceanograp estimation-based, thermal anal sub-surface temperature observand the Naval Operational Glition in data sparse areas. Modifications or upgrades to of these changes on OTIS, FNOO temperature and surface ship seal-time, with OTIS data exare accumulated over 30-60 day Upgrades to OTIS, TOPS, and No qualitative improvement in both (Feb-Apr) statistical compositily in the western Atlantic at the composition of the compos	ments in the operational, why Center (FNOC) due to upgraysis system which combines ovations. This system is coupled obal Atmospheric Prediction of the system is coupled to the system of the season of the same time and periods to allow statistical or the same time and periods to allow statistical or the system of the surface and subsurface of the surface and subsur	ades in the system from cean temperature climatology ed to both the Thermodynamic Systems (NOGAPS) which toge thus affect the performance ermograph, satellite-deriver from the operational run-sund location over specified all comparisons. I and 1990. The combined S maps. This qualitative regreter in RMS temperature ermograph.	I Interpolation System (OTIS) at 1988 to 1990. OTIS is an optimal y with real-time surface and c Ocean Prediction System (TOPS) ther provide additional informate of OTIS. To monitor the impact ed, multi-channel sea surface tream. These are compared, in regions. Data for a given region. I result of these upgrades was a sult is supported by three month from the form 1990 over 1988, primary and the contract of th				
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